



Goniothalamus cardiopetalus

Assessment by: Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A.



View on www.iucnredlist.org

Citation: Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Goniothalamus cardiopetalus*. The IUCN Red List of Threatened Species 2022: e.T179207182A179207187. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T179207182A179207187.en>

Copyright: © 2022 International Union for Conservation of Nature and Natural Resources

Reproduction of this publication for educational or other non-commercial purposes is authorized without prior written permission from the copyright holder provided the source is fully acknowledged.

Reproduction of this publication for resale, reposting or other commercial purposes is prohibited without prior written permission from the copyright holder. For further details see [Terms of Use](#).

The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#). The IUCN Red List Partners are: [ABQ BioPark](#); [Arizona State University](#); [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [Missouri Botanical Garden](#); [NatureServe](#); [Re:wild](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); and [Zoological Society of London](#).

If you see any errors or have any questions or suggestions on what is shown in this document, please provide us with [feedback](#) so that we can correct or extend the information provided.

Taxonomy

Kingdom	Phylum	Class	Order	Family
Plantae	Tracheophyta	Magnoliopsida	Magnoliales	Annonaceae

Scientific Name: *Goniothalamus cardiopetalus* (Dalzell) Hook.f. & Thomson

Synonym(s):

- *Atrutegia thomsonii* Bedd. Ex Hook. F.
- *Polyalthia cardiopetala* Dalzell
- *Polyalthia wynaadensis* Bedd. Ex Talbot

Taxonomic Source(s):

Board of Trustees, RBG Kew. 2020. Plants of the World Online Portal. Richmond, UK Available at: <http://www.plantsoftheworldonline.org>.

Assessment Information

Red List Category & Criteria: Vulnerable B1ab(iii)+2ab(iii) [ver 3.1](#)

Year Published: 2022

Date Assessed: June 25, 2020

Justification:

Goniothalamus cardiopetalus is a shrub or small tree species that is endemic to India. It has a restricted distribution with an extent of occurrence (EOO) of 12,885 km² and an area of occupancy (AOO) of 32 km². There are seven locations. Most of the locations occur in areas that have been subject to habitat loss from agricultural expansion. Other threats include forest plantations, dams and settlement expansion. It is assessed as Vulnerable.

Geographic Range

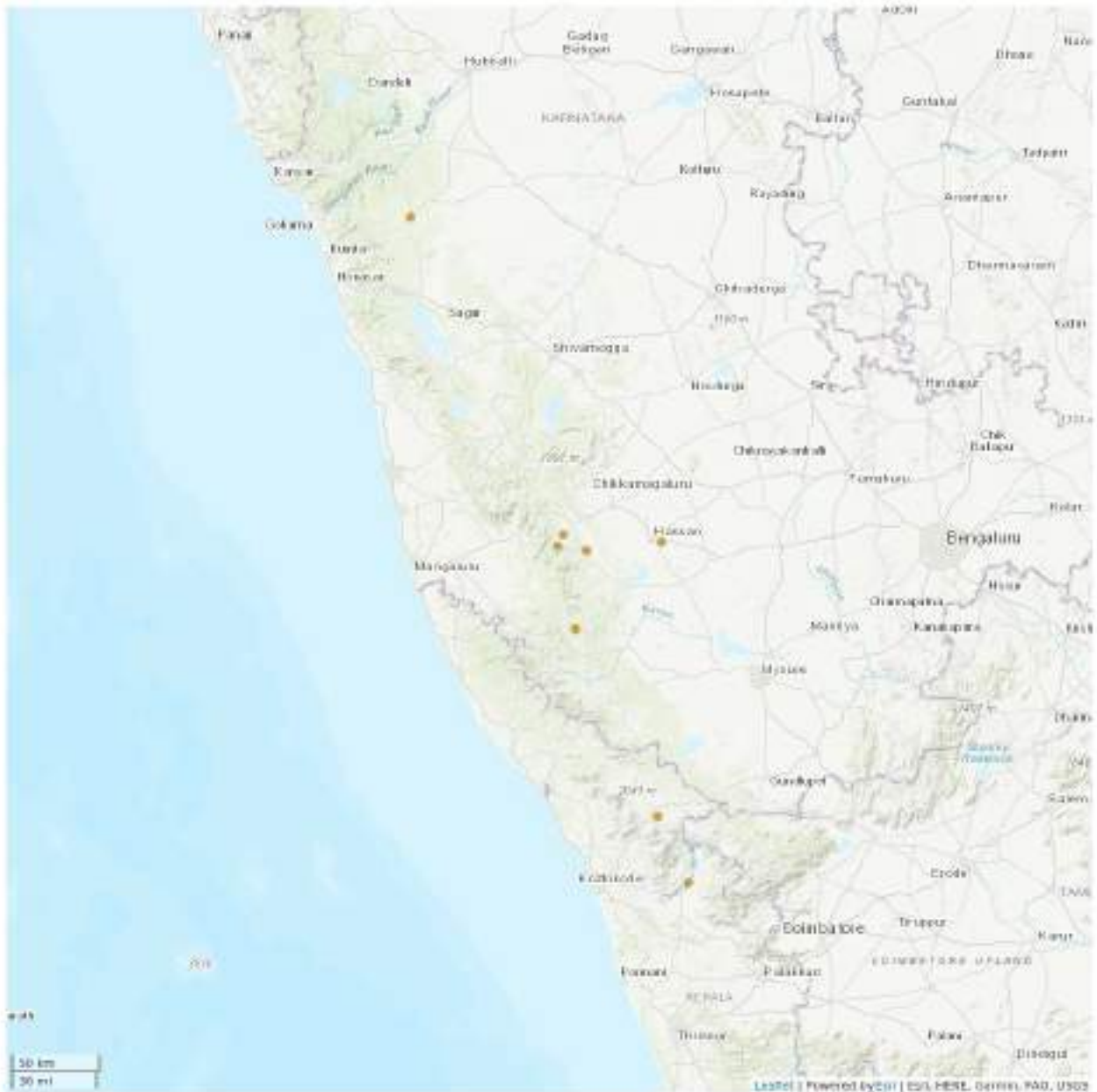
Range Description:

This species occurs in India (Board of Trustees 2020).

Country Occurrence:

Native, Extant (resident): India

Distribution Map



Legend
■ EXTANT (RESIDENT)

Compiled by:
 GTA 2021



The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.



Population

The population size and trend for this species are currently unknown.

Current Population Trend: Unknown

Habitat and Ecology (see Appendix for additional information)

A shrub or small tree species to 5 m in height that occurs in low and medium elevation evergreen forests, up to 1,100 m altitude.

Systems: Terrestrial

Threats (see Appendix for additional information)

Habitat loss because of forest cover loss is a possible threat for all species of *Goniothalamus* (Hansen *et al.* 2013). Most of the localities occur in areas that have been subject to habitat loss from agricultural expansion. Other threats include forest plantations, dams and settlement expansion.

Conservation Actions

No specific conservation actions are currently undertaken.

Credits

Assessor(s): Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A.

Reviewer(s): Hills, R.

Bibliography

Board of Trustees, RBG Kew. 2020. Plants of the World Online Portal. Richmond, UK Available at: <http://www.plantsoftheworldonline.org>.

Dauby, G. 2018. ConR: Computation of Parameters Used in Preliminary Assessment of Conservation Status. Available at: <https://CRAN.R-project.org/package=ConR>.

Hansen, M.C., Potapov, P.V., Moore, R., Hancher, M., Turubanova, S.A., Tyukavina, A., Thau, D., Stehman, S.V., Goetz, S.J., Loveland, T.R., Kommareddy, A., Egorov, A., Chini, L., Justice, C.O. and Townshend, J.R.G. 2013. High-resolution global maps of 21st-century forest cover change. *Science* 342: 850-853.

IUCN. 2001. *IUCN Red List Categories and Criteria: Version 3.1*. Species Survival Commission. IUCN, Gland, Switzerland and Cambridge, UK.

IUCN. 2022. The IUCN Red List of Threatened Species. Version 2022-1. Available at: www.iucnredlist.org. (Accessed: 21 July 2022).

Citation

Verspagen, N., Erkens, R.H.J., Amitha Bachan, K.H. & Devika, M.A. 2022. *Goniothalamus cardiopetalus*. *The IUCN Red List of Threatened Species* 2022: e.T179207182A179207187. <https://dx.doi.org/10.2305/IUCN.UK.2022-1.RLTS.T179207182A179207187.en>

Disclaimer

To make use of this information, please check the [Terms of Use](#).

External Resources

For [Supplementary Material](#), and for [Images and External Links to Additional Information](#), please see the Red List website.

Appendix

Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
1. Forest -> 1.6. Forest - Subtropical/Tropical Moist Lowland	Resident	Suitable	-

Plant Growth Forms

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Plant Growth Form
SL. Shrub - large
TS. Tree - small

Threats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.1. Housing & urban areas	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.1. Shifting agriculture	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
2. Agriculture & aquaculture -> 2.2. Wood & pulp plantations -> 2.2.3. Scale Unknown/Unrecorded	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.11. Dams (size unknown)	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		

Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Research Needed
1. Research -> 1.2. Population size, distribution & trends
1. Research -> 1.5. Threats

Additional Data Fields

Distribution
Estimated area of occupancy (AOO) (km ²): 32
Extreme fluctuations in area of occupancy (AOO): No
Estimated extent of occurrence (EOO) (km ²): 12885
Extreme fluctuations in extent of occurrence (EOO): No
Number of Locations: 7
Upper elevation limit (m): 1,100
Habitats and Ecology
Continuing decline in area, extent and/or quality of habitat: Yes

The IUCN Red List Partnership



The IUCN Red List of Threatened Species™ is produced and managed by the [IUCN Global Species Programme](#), the [IUCN Species Survival Commission \(SSC\)](#) and [The IUCN Red List Partnership](#).

The IUCN Red List Partners are: [ABQ BioPark](#); [Arizona State University](#); [BirdLife International](#); [Botanic Gardens Conservation International](#); [Conservation International](#); [Missouri Botanical Garden](#); [NatureServe](#); [Re:wild](#); [Royal Botanic Gardens, Kew](#); [Sapienza University of Rome](#); [Texas A&M University](#); and [Zoological Society of London](#).